

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/00

Date Received: 08/31/00

Project: Metro Self Monitor, PO # M82857

Date Extracted: 09/01/00

Date Analyzed: 09/01/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M 82857 008150-01	0.48	0.44	0.47	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 008150-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.48	0.50	4	0-20
Copper	mg/L (ppm)	0.44	0.46	4	0-20
Nickel	mg/L (ppm)	0.47	0.51	4	0-20
Zinc	mg/L (ppm)	<0.05	0.06	nm	0-20

Laboratory Code: 008150-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.48	102	105	80-120	3
Copper	mg/L (ppm)	5	0.44	100	103	80-120	3
Nickel	mg/L (ppm)	10	0.47	100	102	80-120	2
Zinc	mg/L (ppm)	5	<0.05	105	108	80-120	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	87	96	80-120	9
Copper	mg/L (ppm)	5	101	104	80-120	3
Nickel	mg/L (ppm)	10	89	96	80-120	7
Zinc	mg/L (ppm)	5	92	99	80-120	7

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

SAMPLE CHAIN OF CUSTODY

Company ALASKA Copper Works Contact GERALD A. Thompson
Address 628 Harvard ST
City, State, Zip Seattle WA 98134
Phone # 206-382-8379 FAX # 206-382-4309 Date 9-14-00

PURCHASE ORDER #

7238

metro self monitor

M 83159

PROJECT LOCATION

Handwritten signature

3200 6th Ave S.

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

[illegible]

Time

ERNEST A. Thompson

ACH

9/14/00

13:18

Kate Trafton

FB,

9.17.00

1320

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 12, 2000

DUPLICATE COPY

INVOICE #00ACU0912-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO # M82857 - Results of testing requested by
Gerry Thompson for material submitted on August 31, 2000.

1 sample analyzed for Total Chromium, Copper Nickel and Zinc
by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID(b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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September 12, 2000

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

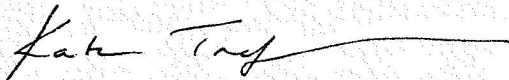
Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 31, 2000 from your Metro Self Monitor, PO # M82857 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton
Project Manager

Enclosures
ACU0912R.DOC